

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>
Subject: [18963] 2m and 440 MHz DAYTON QRP frequencies!!!!
Message-ID: <Pine.3.89.9705050739.C3675-0100000@w3eax.umd.edu>

Okey dokey, here we go! I'm hereby declaring the following:

2m: 147.525, PL 110.9 (if necessary)
440: 446.525, PL 110.9 (if necessary)

These are a slight deviation from before. Why?

- 1) The suffixes are now identical
- 2) The CTCSS frequencies are also identical

I'll be there, as will a few others. It'll be good for networking and meeting each other.

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
*** 6m 75 grids worked on 8 watts *** HF 140 cfmd * QRP-L #147 ***
** QRP ARCI #9054 ** DXCC/WAS/WAC *** 100% dipole powered HF/6m **
* 301-549-1022 h / 301-982-1015 w *** 145.490- 147.225+ PL 156.7 *

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997
From: Steve Galchutt <N0TU@webaccess.net>
Subject: [18952] 40m was Hot Sunday nite!
Message-ID: <336D6115.6618@webaccess.net>

(Sunday/nite) Worked a Maine station w/900milliwatts on my attic
dipole...Yesssss...QRP works! OK..it helps a little when conditions are
good too! Glad to see them improving...Cheers Steve/N0TU

"Just doing it" - Havin'a blast buildin'& usin'QRP gear that is...
n0tu/hw8/49er/SW40/38s/solar/backpack-mobile... QRP-L # 911
My homepage - <http://www.webaccess.net/~S&P> ARS# 206 CQC# 394

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997
From: Doug Hendricks <ki6ds@dpol.k12.ca.us>
Subject: [19002] A Plan for Operating QRP Field Events.
Message-ID: <3.0.1.32.19970505113238.006c686c@telis.org>

I just came back from operating another QRP Field event, QRP to the Field. Four of us, Ron Stark, KU7Y, Bob Follett, AB7ST, Paul Harden, NA5N, and myself, Doug, KI6DS, went to Area 51 in Nevada where we set up three stations, 20 and 40 CW and 20 SSB. There were some things that I learned from the experience that I would like to share with you.

It really helps to go out with a group of guys. This is the second QRP Expedition that I have been on, and I thoroughly enjoyed both of them. The common denominator on both has been that QRPers are great to be around, and are very friendly people. Throw in the fact that you have a common interest, and it is bound to be a fun time. Prior planning is very important, and it helps tremendously to have someone who can drive to the area that you are visiting with a vehicle that can bring the large items that are a pain to haul on an airplane. Bob Follett did it this time, and Paul Harden, Tom Whalen and Jay Miller did it for the Riley Expedition.

Four operators are just about ideal for a QRP Field set up. I would advise you to only go CW though, and this is based on my experience for the past 3 years. If it is a large contest, like Field Day or Sweepstakes, then yes you will be able to make plenty of contacts QRP SSB. But, in a small QRP contest, most of the ops will be on CW, and it is far easier to make contacts with CW than SSB especially with field type antennas. I have tried SSB the past two years, and will not do it again, at least in small QRP Field contests.

I would also suggest that you have 2 stations on the air at the same time, 20 and 40 meters, and the guys agree ahead of time that they will work one hour on and one hour off, alternating bands. This way, you will have two guys operating and the other two can visit about QRP and solve all the major problems of the world. On the other hand, if there are only two of you on the outing, a good technique (perfected by Paul Harden and Tim Pettibone) is to operate for an hour, milking the band, and then switch rigs, to work the new ones who have shown up on the other band. Switching bands every hour will help to ensure that you have plenty of guys to call, and it keeps you from getting bored hearing the same old calls over and over again.

Antennas are very important for QRP stations, and the very best solution when you take on things into consideration is in my opinion the SLV with the W6MMA coil. This antenna is fast and easy to set up, easy to transport, self supporting (you don't need trees), works all bands, and doesn't cost an arm and a leg. Plus I have found it to work very well.

You will need food and drinks. I suggest that you take twice what you think you will need, as you will probably have visitors and it is nice to be a good host. Plus, you don't want to run out.

Jim Cates also came up with a good suggestion. The night before you are to leave for your QRP Expedition, do the following. Set up your station and make a contact from your front yard. This way you will know that you have everything needed for your trip. Now, this is the key. After you have made the contact, pack everything and place it in the vehicle. Do not do anything else until you have finished packing everything. I have made

lists and checked them off, told my wife to remind me, and several other measures, and I always forget something. Jim's idea seems like a winner to me.

The most important thing though is to have fun. That is what this hobby is supposed to be about, and it sure has been for me. Listen for KI6DS the next contest, and I hope to get you in the log. 72, Doug, KI6DS

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>
Subject: [18985] Aluminum masts sold
Message-ID: <Pine.3.89.9705051146.K4407-0100000@w3eax.umd.edu>

I bought three, I thought about selling one...

I sold two in one hour. I wish I had two dozen.

72 73 all CU in Dayton!

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From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997
From: dearly@coocc.edu (Daniel K. Early)
Subject: [19008] big black power station
Message-ID: <v01540b05af93e09c1cb1@[206.163.24.56]>

Is the "big black powerr station" the Power Station with the voltmeter advertized in QST with a handle on the top. Any experiences with these??

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997
From: Jess Gypin <jessqrp@concentric.net>
Subject: [18948] Camping and other fun.
Message-ID: <336D4DD1.359C@concentric.net>

Hi all,

Just got back from a fun filled weekend near Loveland Co in the mouth of the Big Thompson canyon. A new RV is a wonderful reason to QTTF and other fun.

I did not spend much time at the radio, but what little I did had fun. The whole reason for this trip was to shake down the RV and also see if the setup that I plan on taking on other extended trips this summer will work.

I hooked the 38S to the SLV with the MMA coil and got set up. On 30 meters I got a 1.5 to 1 SWR with four radials made out of twin lead for the original SLV. Called CQ about sunset and worked Canada and Oregon. I bit later I hooked up the OHR 400 and talked with KD7S and his 38S and got a lovely 579 report. The next day I put the shorter top radiator on and tuned up on 20 meters. I called CQ and chatted for about 20 minutes with VE3ABT and he was using a Tentec Argosy if I remember right. I did try 40 meters for a bit on Saturday night but the band was filled with CQ test (what test?) and gave up and dropped back to 40 meters.

Not a lot of time for radio but fun anyway. The SLC set up quickly and did yeild some nice results for the first time that I had the MMA version of the SLV in the field. I was going to set up the other SLV that I had with the coil mod that I did using the foam and coil wire but just never got the time.

Lot's of food, fishing and radio fun and the new RV worked out real well too. Fun was had by all.

Best

Jess N0TFI

<http://www.concentric.net/~jessqrp>

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997

From: mdwatt@usit.net (Marty Watt)

Subject: [18976] Change in FS or FT offer

Message-ID: <336e006d.46495874@smtp.usit.net>

I've gotten some requests to separate the goods offered for sale, so here goes ...

MFJ 9040 -- \$130

Bencher w/unbuilt TiCK chip and data sheet -- \$75

Outbacker, Jr. 4ft mobile HF (80-10m) -- \$200

NorCal 38S -- \$90

All prices include shipping lower 48 via USPS Priority Mail.

Will still consider trade for Dual-Band VHF/UHF rig, with VHF/VHF capability (like the Alinco DR-610). I pay shipping both ways on this trade.

Package deal reduces each item by \$5, to reflect ability to combine shipping.

Reason for sale: Acquired a TenTec Argo 556 with all band modules, need the VHF/VHF for Skywarn activities.

72 es 73 de=20
Marty, KM7W

Jackson, Tennessee e-mail: mdwatt@usit.net
http://www.public.usit.net/mdwatt
"The Curmudgeon's Corner"
NorCal #2031 - ARCI #7514 - QRP-L #953 - AK/QRP #098 - Grid EM55oq

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997
From: "Marshall Emm" <mgemm@mtechnologies.com>
Subject: [19001] CQC Meeting Notes
Message-ID: <199705051830.MAA28817@lynx.csn.net>

FOR IMMEDIATE RELEASE
From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997
From: Brad Mugleston <bmug@gwl.com>
Subject: [18967] Creation by Computer
Message-ID: <01BC592A.80CABCC0@pps-pc10.gwl.com>

Paul,

Question - saw your post on the creation by computer - funny but not new - what did surprise me was the last line -- Copyright 1997 by Top Ten Lists, Inc. All rights reserved. -- This thing has been bouncing around the internet for years, its nice to know someone took the responsibility to take ownership and copyright it, hate to have anything for free anymore.

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997
From: Doug Hendricks <ki6ds@dpol.k12.ca.us>
Subject: [19034] Dayton Weather (Grin)
Message-ID: <3.0.1.32.19970505154149.006c6e80@telis.org>

Ok, guys what has the weather been like in Dayton? I know I can get on the Web and read all the garbage, but I want a local report from someone in the area. It just isn't the same getting it from a "Website". I like to get it straight from someone who is there. Keep us posted.

Only six more days of school until I get to leave for Dayton!! I will be flying out Weds. morning with Jim Cates, Steve Cates, Vern Wright and Roy (darn it, can't think of Roy's last name.). We will be at the Day's Inn on Weds. evening. We will be bringing a good supply of 38 Specials with us.

Also, Saturday night we will be presenting the Plaques for the NorCal Dayton Design Contest. They are "real" walnut, not the cheapo skato press board. I see where the ARRL is charging \$50 for their plaques in Sweepstakes. That is not bad, as the two that I purchased were \$60 each. Don't forget the NorCal Building Contest Judging will be Saturday night with Chuck Adams and Dick Pascoe two of the three judges. We will start the judging at 8:00 PM.

72 and see you in Dayton. Doug, KI6DS

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997
From: "Jim Kortge, K8IQY" <jokortge@mci2000.com>
Subject: [18936] Equipment for sale
Message-ID: <3.0.1.16.19970504192038.292f2ce0@mail49.mci2000.com>

Gang...one of my good friends has the following equipment for sale. Bob is a retired electronics tech, as well as being a ham. I grew up with him. You won't find equipment that is better constructed than the pieces that Bob has touched. Respond to him directly if interested.

Thanks for the bandwidth and 72.....Jim

For Sale: Amateur Radio Equipment

Alinco DR-1200 2m packet xceiver with mic \$250
Kantronics Kam II TNC \$175
Down East Microwave 2m xverter \$195
Down East Microwave 70cm xverter \$280
Mirage D-26N 70cm amplifier, 60w \$170
Heil BM-10 Boom Headset with HC-5 \$50
Swan Astro 150, 80-10m xceiver \$450

Call Bob, K8NTK @ (810) 632-5433 or E-Mail: rballmer@ismi.net

| | | |
|-----------------------------|----|-------------------------|
| Jim Kortge, K8IQY (ex NU8N) | | NorCal, QRP-L |
| jokortge@mci2000.com | | __o H.F. bicycle mobile |
| Fenton, MI | | _'\<, Mizuho 17/40 SSB |
| ... | .. | .. (*)/(*) .. |

NorCal 38S Log - 32 States; 27 Countries - Running 3 watts
Most recent - W VA Greece

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997
From: Mike Czuhajewski <wa8mcq@u1.abs.net>
Subject: [18960] Fixing a broken toroid
Message-ID: <Pine.BSI.3.93.970505080933.18716A-100000@u1.abs.net>

Every now and then you read that it's OK to glue a toroid back together if you drop it and it shatters into a few big pieces. But will it still perform the same after that? I did an unintended experiment to find out. I would never try doing it deliberately since there's no guarantee of how the core would shatter; if it only breaks into a few large pieces it's easy enough to fix, but if it breaks into a dozen or more little ones it could be difficult to glue it back together, so I might have to wind and then destroy several cores before one broke in such a way that I could use it. I had one shatter on me by accident after I had already measured it, and luckily it broke into 4 roughly equal pieces and was easy to glue back together with 5 minute epoxy, rewind and measure again.

I was using a T130-2 core with notches filed into it all the way around, on both top and bottom, to insure that the windings would be in the same position every time and remove the variable of turns spacing from my tests. I was winding 22 turns with a variety of wire sizes and measuring it at 3.6 MHz to see the effect of wire size on Q. (This was a test done by W7EL and reported in the April 1983 issue of QST, page 39 (Technical Correspondence), although he used a number of T50-6 cores tested at 14 MHz.)

I started with #18 wire, then 22 and 24. After rewinding it with #26 I carried it across the room to the Q meter and it slipped and fell on the tiled floor. It was easy to find the 4 pieces and figure out which way they went together because the windings kept them relatively close together. I glued it together with 5 minute epoxy. Since I had already measured it with #24 wire I rewound it with #24. Because the core was notched the turns were in precisely the same position as

before, eliminating the spacing variable (which will always be there to some extent when using an unnotched core or different cores). A small change in spacing of turns could mask or magnify a small inductance change resulting from other factors.

Core: T130-2

Wire: 22 turns, #24

Test Frequency: 3.600 MHz

Before dropping core: 5.65 uH (resonating capacitance 345.9 pF), Q 250

After dropping, repairing and rewinding: 5.357 uH (resonating capacitance 364.8 pF), Q 246

It was interesting to note that there was a distinct change in the inductance, about a 5% decrease. Since the core was notched I didn't have to wonder whether the change was a result of the Toroid Trauma or simply from a slightly different winding technique. The Q remained essentially the same, though. (I measured the rewind coil about 20 minutes after the glue was applied, and also about 11 hours later, after it had cured more fully; the two measurements were essentially identical.)

I wouldn't read too much into any of this, since it was based on a single test of a single core, but it does appear that you can safely glue a core back together and have it work pretty much the same as it did before breaking. I found a small decrease in inductance for some reason--and that was with the turns in precisely the same positions due to the notches--but unless the turns on a coil are already packed together you could squeeze them in a bit and get that little bit of inductance back. I have no idea if the power handling capability would be affected, though.

If any of the physicists or magnetics experts out there have any comments or observations, I'd love to hear from you!

73 and Queue Our Pea DE WA8MCQ

wa8mcq@abs.net

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997

From: randy_ott@juno.com (Charles R. Ott)

Subject: [18954] Free 80M crystal update

Message-ID: <19970505.000112.12174.0.randy_ott@juno.com>

Wow, sure got a lot of replies. I hope the QRM isn't going to be too bad

on 3.6864 MHz. (That is the correct frequency, sorry about the typo)

For those of you that are already sending an S.A.S.E. I will send them as soon as possible. I picked up some mailers this weekend for those requests for more than a few crystals and I will weigh them tomorrow to see how much postage they will need. For those who only need three or four, I figure a small envelope with a few crystals should be under 1 oz. so 32 cents should be OK.

After I get a few packaged and weighed I will post another update. Just didn't want anyone to think I forgot.

Charles R. (Randy) Ott
K5HJ - QRP-L #1040

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>
Subject: [18975] FS - NEW military issue ALUMINUM 35' portable guyed mast!
Message-ID: <Pine.3.89.9705051051.E4122-0100000@w3eax.umd.edu>

It breaks into 9 (or maybe 10) pieces. Made of 1-1/2" aluminum piping, painted green (of course). Has a swiveling spike base for easy raising/lowering, two sets of four guys, four huge spikes, pretty sturdy-looking rope, metal tensioners, and wraps for the ropes.

Made in 1992, military issue, total weight about 20 lbs. Great Field Day or mountaintopping antenna support (what the military uses 'em for). Never used, most pieces still wrapped in paper.

Uncle Sam paid \$450 per copy for these. Asking \$112.50 (1/4 price) plus shipping. Yes, I'm keeping one for myself.

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* 301-549-1022 h / 301-982-1015 w *** 145.490- 147.225+ PL 156.7 *

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997
From: Philip Corlis <pdcorlis@nidc.edu>
Subject: [18989] FS 38 Spcl in case
Message-ID: <s36db9cd.031@nidc.edu>

Hi All

Time for a new project ... so gotta let go of my 38 spcl. This baby has 5 watt mod, most optimizations completed, is mounted in RS modem box, and looks es sounds gud. Freq coverage is 10.102 - 10.119. Even comes wid the patented "thump" ur all so wild for. First contact from Idaho wuz New York, no kidding! Own a legend for only \$65.00 plus shipping, I'm lookin to build somthin new fer 15 or 10 meters in the hope it may speed up solar cycle, so my insanity is ur gain.

Phil, KI7ZY

If interested PLS contact me at:

pdcorlis@ior.com (home)

pdcorlis@nic.edu (work)

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997

From: Philip Corlis <pdcorlis@nidc.edu>

Subject: [19010] FS 38 Spcl in case

Message-ID: <s36dd11f.053@nidc.edu>

Hi All

Time for a new project ... so gotta let go of my 38 spcl. This baby has 5 watt mod, most optimizations completed, is mounted in RS modem box, and looks es sounds gud. Freq coverage is 10.102 - 10.119. Even comes wid the patented "thump" ur all so wild for. First contact from Idaho wuz New York, no kidding! Own a legend for only \$65.00 plus shipping, I'm lookin to build somthin new fer 15 or 10 meters in the hope it may speed up solar cycle, so my insanity is ur gain.

Phil, KI7ZY

If interested PLS contact me at:

pdcorlis@ior.com (home)

or

pdcorlis@nic.edu (work)

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997

From: "N4ELM" <n4elm@ipass.net>

Subject: [18940] FS: Heath HW-9 and accessories

Message-ID: <199705050101.VAA04999@passport.ipass.net>

For Sale:

Ten-Tec HW-9 HF CW transceiver

with WARC kit.

in good condition, some scratches on the case tops,

not mint but everything seems to work.

all original, no mods.

Includes HM-9 wattmeter, HFT-9 tuner, PSA-9 AC power supply, and original manuals and schematics.

\$350.00 + shipping OBO or trade towards Wilderness Sierra + accessories.

73 - Dave, N4ELM.

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997

From: "Dave Redfearn" <n4elm@ipass.net>

Subject: [18961] FS: Heath HW-9 and accessories - oops!

Message-ID: <199705051212.IAA28038@passport.ipass.net>

For Sale:

Heathkit HW-9 HF CW transceiver

with WARC kit.

in good condition, some scratches on the case tops,

not mint but everything seems to work.

all original, no mods.

Includes HM-9 wattmeter, HFT-9 tuner, PSA-9 AC power supply, and original manuals and schematics.

\$350.00 + shipping OBO or trade towards Wilderness Sierra + accessories.

73 - Dave, N4ELM.

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997
From: hudog@ibm.net
Subject: [18939] FS: HW-8's / HWS-7 PS
Message-ID: <336D480F.7D20@ibm.net>

I am going through some shack cleaning, and have decided to sell 2- HW8's and 1- HWA7 power supply. I have an original manual for the HW-8, but do not have a manual for the power supply.

I have not gone through these radios but they appear to be complete and unmodified. There are no additional holes. One panel has a small scratch in it and the other panel looks very good.

I figure an HW-8 if working is worth \$75 to \$90 based on condition. I would like to sell the equipment as a package for \$120 plus shipping. This would make a nice project for someone who wants some nice HW-8's.

73, George

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997
From: N5JI@aol.com
Subject: [18937] FS:FT757GXII
Message-ID: <970504200001_-565764850@emout14.mail.aol.com>

hi gang

i'll try once more. pse excuse if you've seen this before.

i have for sale my yaesu ft757gxII. with matching hand mic, cw filter and built in keyer. purchased from burghardt amateur center in dec 96.

some scratches on top, electrically it's 100 %. \$525 SHIPPED.

oh yeah just worked cam hp1ac on 28.060.

cheers n5ji dick

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997
From: "Gregory J. Buhyoff" <buhyoff@vt.edu>
Subject: [18958] FS:SP-6 (Yaesu) external speaker

Message-ID: <199705051121.HAA16736@sable.cc.vt.edu>

Perfect condition, Yaesu SP-6 external speaker with built-in audio filter.
Includes documentation. Will ship UPS for \$70 -- less than 50% of new price.

Contact me at Buhyoff@vt.edu or call 540-951-4097 before 9PM Eastern.

Greg K2UM

Gregory J. Buhyoff
Julian Cheatham Professor
Virginia Polytechnic Institute and State University
Blacksburg, Virginia 24061

Phone: 540-231-5148

E-mail: Buhyoff@vt.edu

FAX: 540-231-3698

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997
From: "Gregory J. Buhyoff" <buhyoff@vt.edu>
Subject: [18970] FS:Yaesu SP-6 Ext. Spkr
Message-ID: <199705051422.KAA21482@sable.cc.vt.edu>

Perfect condition Yaesu SP-6 external speaker with built-in audio filter.
Includes documentation. Ship for \$70 via UPS.

Contact me at Buhyoff@vt.edu or call 540-951-4097 before 9PM EASTERN

Greg K2UM

Gregory J. Buhyoff
Julian Cheatham Professor
Virginia Polytechnic Institute and State University
Blacksburg, Virginia 24061

Phone: 540-231-5148

E-mail: Buhyoff@vt.edu

FAX: 540-231-3698

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997
From: dearly@cocc.edu (Daniel K. Early)
Subject: [19005] Gel Cells
Message-ID: <v01540b04af93dc1c0e01@[206.163.24.56]>

At Radio Shack I saw some alarm batteries. Anyone have experience with these? Dan WA6IRO

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997
From: Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
Subject: [18981] Hamsticks etc.

My posting about a bugcatcher being 97% better than a hamstick caused quite a stir. Allow me to expand.

The "shootouts" are done on 75m, the toughest HF band for mobiles.

On 75m, the hamstick was 12dB down from the best bugcatcher and 8dB down from the worst (homemade) bugcatcher. It was 3dB down from a Hustler. Please note that the best bugcatcher was 12dB down from a halfwave dipole. 75m mobile is a bear.

Things improve for the hamstick on the other bands. A 10m hamstick is virtually as efficient as a bugcatcher or a dipole. So quit sending me emails saying that you get 5x9+ reports on 20m with a hamstick. Of course you do. We were talking about the shootout results performed on 3.995 MHz where even a bugcatcher suffers from a 3% efficiency rating. Hamsticks are OK antennas for 20m-10m.

73, Cecil, W6RCA, 00TC

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997
From: Wayne Glover <wayneg@ci.ogden.ut.us>
Subject: [18982] Heathkit and other old gear manuals available
Message-ID: <336E1BF3.4CA6@ci.ogden.ut.us>

Dave Fisher W7FB (ex W0MH5) asked me to post a list of Heathkit and other manuals he has available as he is not a subscriber to qrp-1.

Please contact him directly at <utahfolks@konnections.com> if you are interested.

Heathkit: HW7, HW8, HD10, HW16, HG10, HG10B, HR1680, HX1681, PS23, AA32
TenTec: 580, 247/277, 574/C21 dig, C21
Hammarlund: HQ150, HQ120, HQ 140, SP400
Yaesu: FTdx401
Johson: Viking matchbox
Kenwood: TR7600-SM, TR7600
National: NC183D
Hallicrafters: SX28A
General Radio: 1650A, 1656, 1232A, 1240S, 1216A
Icom: 215, 25A, 2AT, BC20/N900

All inquiries to Dave please.

Thanks for the bandwidth. Wayne WJ7H

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997
From: KR4GL@aol.com
Subject: [18953] Helical antennas
Message-ID: <970505004927_437022989@emout11.mail.aol.com>

Just a quick comment about verticals, and helically wound verticals.

A well installed vertical is very efficient. Typical broadcast transmitting antennas are 1/4 or 1/2 wave verticals with 120 radials of solid copper and with a close mesh ground screen near the base of the strick. Feed is between the bottom of the vertical and the ground system. All connections are soldered -- silver soldered -- using real silver. Loss resistance is very low.

Typical ham verticals aren't nearly as efficient. Why do they work? Because to work DX (and that means almost anything you work above 10 MHz) the important thing is to put as much signal as you can at a low take-off angle from the antenna. Lower angle, greater distance to the first reflection from the ionosphere.

A dipole, at any height is more efficient than a typical vertical; its ratio of loss resistance to radiation resistance is lower than that of a vertical that's about as well installed as you can make it. But the vertical can STILL put out more signal at the low take-off angle that gets you to the DX. Low height dipoles are often called cloud warmers because of their very high angle of radiation. A low dipole, by the way, is anything below about 50 ft. for most bands.

One reason Hamstick owners (like me) often report good results is the inherently low take-off angle. Another is the fact that Hamsticks, which are helical and have a loading coil in the MIDDLE of the stick, shows a relatively low resistance at the bottom of the radiator, where MOST of the signal is generated. In general a base loaded vertical is poorer than a typical helical or "center-loaded" vertical.

Now the bad news: verticals are not very good receiving antennas, because they pick up noise (which is usually a voltage between ground and the rest of the antenna) quite well. The quest becomes one of finding a good receiving antenna, with a low angle of reception for DX, that doesn't pick up noise. Enter the receiving loop, another story for another day.

Hope I've included some info someone hasn't seen before, or lately.

72 de KR4GL
"Keep rejoicing for God's Love"
Northern Virginia

Can't wait for FDIM (Thanks for all your work, Bruce)

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997
From: "Thomas J. Whalen" <whalen@swcp.com>
Subject: [19013] HW-8, 10 meters
Message-ID: <Pine.SUN.3.91.970505132034.5649A-100000@kitsune.swcp.com>

Hi All, I just brought my HW-8 home and hooked it up to my 20m dipole and all seems well, except that on 20m the loudest thing on the band is a AM broadcast station. He is loud from one end of the band to the other. I will dig into it tomorrow, but in the mean time I could use some suggestions on what to look for.

Ten meters was open today into Central Texas. I heard the W5AB beacon on 28.280 very loud at times. Called CQ till I was blue in the face on 28.400 and no answers. Guess I better get a day job!!! 72, Tom.

Hey Chuck, I could have worked you today on 10m! Would you like to work afternoons???

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997
From: jim <kw3u@warwick.net>
Subject: [18969] HW-9 FS/FT
Message-ID: <336DE934.2121@warwick.net>

Hi, I did it again, bought yet another qrp rig at a hamfest,
The hw-9 with warc bands. Works fine except two problems;

1. The RIT doesn't work.
2. most qso's answered me bout 100-200 kc off so I think
the offset might need tweaking.

Otherwise it works great and just a few scratches.
I don't have any book/manual/schematic for it (otherwise I
would take the time to tinker and make it perfect.

However when this yrs tax refund comes I am buying a
new HF rig so need to clear out some of the ten qrp rigs.

I'll start with this HW-9 looking for best offer over
\$150 or trade for 10 meter mobile rig.

Thanks Jim KW3U

hw-8/argo 505/mfj9040/OHR 20 spirit/ OHR 40 sprint/ic-725 /

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997

From: Dave Fifield <fifield@pacbell.net>

Subject: [19004] IC720A Filter Unit

Message-ID: <336E8DB4.63E1@pacbell.net>

Hi folks, not really qrp, but...

Just on the off chance, does any of you have or know the whereabouts
of a spare "filter unit" for an IC-720A HF transceiver? This is the unit
that contains the "clicking" rotary relay that does the bandswitching.
Mine is kaput and Icom say they don't have anything in the way of spares
for this unit (either the relay or the whole board/unit) anymore -
there's service for you (not!). Of course I'll pay whatever's required.
I could even be persuaded to buy another junker '720 if the filter
unit in it still works!

To complicate things a little, I'm going to be away for the whole
of this week so won't see your reply/s until Friday night.

If all else fails, I'll design my own unit and make a PCB to fit!

72, Dave Fifield, AD6AY

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997

From: "Thomas J. Whalen" <whalen@swcp.com>

Subject: [18946] Keyer F.S. or trade

Message-ID: <Pine.SUN.3.91.970504204530.3057B-100000@kitsune.swcp.com>

Hello Fellow QRPers! I have a Ten Tec KR 20 Electronic Keyer that I no longer want. It runs on 110 v only, so it is not very portable! Thanks,
Tom WB5QYT

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997

From: Doug Hendricks <ki6ds@dpol.k12.ca.us>

Subject: [18992] May NorCal Meeting Report

Message-ID: <3.0.1.32.19970505104445.006c7788@telis.org>

It was the usual good crowd at the May meeting of the NorCal QRP Club. This was the 48th consecutive meeting of NorCal, and not once have we had a secretary's or other reports. No Old business has ever been discussed, nor for that matter any new business. We never adjourn, we just leave when we are ready to go. The refreshments are always just what you want, because you buy your own. The program chairman isn't, and that is a huge relief, there is never a boring program.

Jerry Parker and DK Philbin were the best dressed QRPers there. Both of them had custom 38 Special t-shirts. They have the schematic of the 38 Special that was in the last issue of QRPp, which was the Spring issue. Jerry also was there to take pictures of the meeting. There were several nice projects for show and tell. Dennis Utley gave us a sneak preview of the packaging job that he did for the NorCal Building Contest at Dayton. His 38 Special and Rainbow Tuner are outstanding. He has a special carrying case that carries the 38 Special, Rainbow Tuner and the power supply, plus his beautiful Shurr Paddles. When you see what he has used for cases, you won't be able to wait until you get a chance to get to the next flea market. Sam Imai had his combo rig there. His has a 38 Special, 48 Special, and Rainbow Tuner, all in one package. Very rugged and built to last. Darrel Jones, well, he figured out how to get his wife's hobby involved. He has a ceramic case for his 38 Special and Rainbow Tuner. You have to see this one. It will also be at Dayton. Darrel also did a Rainbow Tuner in an Altoids tin. He has a 49er, Atomic Keyer, and now a Rainbow Tuner, all in Altoids tins. Doug Hauff, who came all the way from San Luis Obispo on his Harley, had one of his 38 Specials in a case made from a single block of aluminum, that has the labels machined in, the standoffs are part of the case, and it was anodized. What a work of art. Doug also had a 49er that he has made a custom case for. He likes to take small rigs with him when he travels on his motorcycle. Dwight Graham brought his portable case that he uses to operate in the "Field Contests". This case has a place for everything, and most of the equipment that it carries is homebrew too. Very nice to see, and it shows that Dwight did a lot of thinking in putting it together.

We had a visitor who brought a set of paddles that he makes out of a quarter inch switchcraft plug. Steve is his first name, but I forgot to write down his last name. He has promised to write an article for QRPP. And speaking of articles. Mike Gipe is coming along quite nicely with his Counter/Clock module. The first prototype will be 1.5" x 3.5" and Mike says that it will probably sell for \$30 as a kit. This is a frequency counter that will work with any rig. It will be a great addition to the older rigs with analog display, and the best part is that it is not a current hog.

I brought the Micro Receiver that is the latest QRP Club project that is being done by the Columbus QRP Club. It is a tiny, VXO DC receiver that is a perfect match for the Oner and other simple crystal controlled transmitters. Steve Bornstein is the designer.

I would like to thank everyone for the compliments and the good response to the first class mailing of QRPP. Everyone likes it, and I believe that Jim and I made the right call here. There was lots of talk of Dayton, and there are several from the local group planning on attending.

We also had several visitors, Bill Kullman was there from Pennsylvania, and Chuck Adams from Texas. Chuck was given a hard time by several of the members of the Fox Hunting team from California. Bob White, who is the newest member, really enjoyed giving Chuck a ribbing. He took it like a man, and promised that things would be different next year. Chuck brought a couple of goodies from the flea market. He found a 132 dB total attenuator, and one of the Zach Lau designed 3 bander rigs from QST a few years ago. It must help to be tall to find the bargains.

Don't forget that the June meeting will start the 5th year of NorCal. Hope to see all of you at the California Burger Restaurant. 72, Doug, KI6DS

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997
From: Ed Tanton <n4xy@bellsouth.net>
Subject: [19027] Measuring the batt-charging sq wave
Message-ID: <3.0.1.32.19970505175918.00913790@mail.atl.bellsouth.net>

At 02:23 PM 5/5/97 -0700, Monte Stark wrote:

>Hi Frank,

>

>I think you might be on the right track.

>

>Around here it's very common to charge batteries with square

>wave DC.

>

>I've been fooled into thinking the charger wasn't working

>myself, when it was really doing just fine!

>

>Now when will someone make a meter that will only measure what

Message-ID: <01BC5929.C93A3EA0@pps-pc10.gwl.com>

Gang,

As Cecil pointed out the hamstick with a dB of 47.5 has about 93% the power of a bugcatcher at 59.2 dB. Thanks, I don't remember if I knew what the different ratings were when I was sent the copy of the report (I got the numbers only, not the whole article from World Radio). I'm not sure if I would have recognized what I had anyway - yes I know a 3 dB change halves or doubles the power but having it shoot into my brain when I see it isn't a sure thing.

Sandy (W5TVW), Jim (K4CGY) and Cecil (W6RCA) and everyone else, sold me on the OLD Technology approach so what do I need. I have a desire, a 102" SS CB whip and a small amount of cash. I can build it my self - BUT - I have a limited number of tools, mostly hand tools, but some skill. I am very visual, word descriptions are OK but pictures are best. - Jim you said something about \$25 to build - I'm ready.

BTW, I had two friends upgrade Saturday - I need this antenna so I can get on the air more often - I'm getting left behind.

de KB0ROL, Brad

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997
From: n0acs@juno.com (John R. Morris)
Subject: [18955] MOSFET
Message-ID: <19970504.233002.6847.0.N0ACS@juno.com>

Hi gang,

Does anyone know of a source for the VN10KM MOSFET? Or a substitute?

72
John

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997
From: abraham@NTCSAL01DA.ntc.nokia.com (Abraham Peter NTC/Dallas)
Subject: [18998] Need info on Whiterook straight key.
Message-ID: <1997May05.211901.1604.1908316@ntcit-mmta6.ntc.nokia.com>

Hello Everybody,

I'm considering getting a Whiterook straight key.
They have 2 types, and not sure which model yet.

I'm sure somebody out there has some experience with this
company and their products.

Would you please tell me how you like using it?

Was it easy to use?
Did it move around your table/tray/lap/tent floor much?
Is it comfortable to use?
Is it easily breakable?
etc. etc.

Thanks,
Peter

Peter C. Abraham - KB2INO | 1-817-490-5932 voice
RF Engineer | 1-817-490-5699 fax
Nokia Telecommunications | peter.abraham@ntc.nokia.com
<><

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997
From: emaaro@pacbell.net
Subject: [18990] New way to charge Lead-Acid batteries?
Message-ID: <336DEE30.4480@pacbell.net>

Hi all:

I recently purchased a Ryobi Cordless Trimmer, model 150R. The
instructions for operation of the unit said to charge the sealed
lead-acid battery for at least 36 hours before use and to charge at least
24 hours between uses.

I mounted the charger on the wall as instructed and charged the battery
for 40 hours. However before I used the trimmer, I measured the output
voltage from the charger as 11.4 vdc. I disassembled the trimmer battery
case and measured the battery as 13.3 vdc. Hmmm.

I called the Ryobi Service Center and asked about what I thought was a
disparity in charging voltage and unit being charged (11.4 versus 13.4).
I was told that the charger was putting out the correct unloaded voltage
and it would properly charge the battery. Just use the trimmer, charge
the battery as the instructions say and everything will be alright.
I stated that according to all my experiences in charging batteries and
using them that I had never been able to fully charge the battery with a

charger that didn't have more output voltage than the battery. I further stated that I never got full use of any battery that had been charged as per his reply. The rep said that Ryobi has been selling these trimmers with the chargers only putting out 9.6 to 11.5 vdc for seven years without any complaints such as mine and that I should return the trimmer to where I purchased it and get another brand if I wasn't satisfied with the trimmer. So much for good customer relations!

I purchased another charger that puts out 12 vdc @ 100 milliamps of current and I use that to charge the trimmer. So far I've been able to run the trimmer for more than an hour (very large lawn and lots of weeds) before it needs recharging.

Now the question I have is: How can you adequately charge a sealed lead-acid battery with a charger that puts out less unloaded voltage than the battery measures? Does anybody know why this is possible as suggested by the factory rep?

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997
From: tim_hynde@idecc.com
Subject: [18964] No subject given
Message-ID: <9705058628.AA862838488@idec_mail.idecc.com>

I seem to have misplaced the details on the NorCal rig competition at Dayton.

Can someone give a brief description, the rig was the 38S wasn't it?

Thanks, Tim, ka8ddz

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997
From: mdwatt@usit.net (Marty Watt)
Subject: [19009] Old QRP Quarterly
Message-ID: <336e3128.58973149@smtp.usit.net>

I have found in storage the July, 1991 (vol. xxix, no. 3) through July 1993 (vol. XXXI, no. 3) QRP Quarterlies. July 1991 is a photocopy, and all the rest are originals.

Make an offer ...

72 es 73 de=20

Marty, KM7W

Jackson, Tennessee

e-mail: mdwatt@usit.net

<http://www.public.usit.net/mdwatt>

"The Curmudgeon's Corner"

NorCal #2031 - ARCI #7514 - QRP-L #953 - AK/QRP #098 - Grid EM55oq
~~~~~

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997

From: N2QCE@aol.com

Subject: [18974] PC PackRat needed...

Message-ID: <970505114320\_-1165608249@emout12.mail.aol.com>

Hi Gang,

does anyone know where I can get a copy of PC Packrat? I need to reset my PK-88 TNC. Or, do you know another way? I can't get it to do anything but shine the power and mult lights...

signed,

Frustrated

73 de John M. Evans N2QCE

E-mail n2qce@aol.com

<http://www.islandlink.com/n2qce>

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997

From: "Allan G. Taylor" <ataylor@midas.llnl.gov>

Subject: [18979] QRPp back issues needed

Message-ID: <199705051628.JAA13106@midas.llnl.gov>

QRP-Lers:

I have need of obtaining a copy of two articles published previously in the QRPp magazine/pamphlet. In particular, I need the articles in June '94 and March 95 issues regarding 'QRO' mods for the NorCal 40A. I will gladly pay for the copies and postage/envelope.

Thanks...



Grant K7GT            pls reply off the qrp-l reflector to: k7gt@qsl.net

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997  
From: "Dave Maliniak" <dmaliniak@penton.com>  
Subject: [18996] QRV from Boston  
Message-ID: <8525648E.006316F7.00@mail.penton.com>

Please keep an ear out this week for N2SMH/1. I'll be attempting operation from Boston, MA in the evening hours tonight, Tuesday, and Wednesday. The station will consist of my Wilderness Sierra and St. Louis tuner, and the antenna will be a W3EDP long wire. I'll be trying 30, 40 and/or 80 meters. Listen for the guy with the rusty straight key.

72 David N2SMH  
Glen Rock, NJ

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997  
From: "Gary R. Hanson" <ghanson@uts.cc.utexas.edu>  
Subject: [19026] QTTF Antenna finally tested -G3YCC mini dipole  
Message-ID: <336E294A.25D2@uts.cc.utexas.edu>

Hey Gang,

I finally had a chance to test out my 20 meter G3YCC mini-dipole that I built for the QRPTTF outing to Sometimes Islands, but didn't get to use because of all the bad weather.

I bolted the dipole to a 10 foot closet pole and lashed it to my second story deck of my house (not the boat). Total height about 32 feet. I hooked up my NW20 at 5 watts to it (no tuner) and here's how I did.

The first time out, I answered a CQ and got back a 599. Rotated it a little bit more so the legs were running East-West and pointed to North/South and answered a second CQ. Got another 599. Left it there and answered a 3rd CQ from California a little later in the day. Got a 569 and he was right off the end of the dipole to the West. This guy was excited cuz he had just ordered the NW20 kit from Roy and couldn't

believe how well my QRP signal was coming in. Admittedly, the 20 meter band conditions were pretty good in Central Texas on Sunday afternoon, but I was still excited with three really solid reports.

Needless to say, I am delighted with the results and I have to say that little antenna, short as it is, really works for me. Can't wait to go out and lash it to the top of my sailboat mast and try it portable.

I made it out of 1/2 inch aluminum conduit and used wood dowels as the forms for the traps. I had to change the number of turns on the coils because my wire size and form diameter was different than Frank's. I just "guessed long" and then used my Autek RF-1 to trim it down. Since the ends of the dipole are "adjustable" the center traps aren't all that critical. I bolted the whole thing to a 1x4 inch piece of oak about four feet long. I can pick up and carry the whole thing in one hand.

I'll be doing some more calling with it later this week, but the initial try out results were fantastic. I didn't take the time to test it against some of my other antennas and will do that as well and report back.

If you want a simple, portable antenna take a look at Frank's web page, available through the NORCAL page.

See you on the air.

72,

Gary, KJ5VW

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997  
From: Cailean@aol.com  
Subject: [18943] question about hows and whys  
Message-ID: <970504214834\_1685881134@emout05.mail.aol.com>

i have a question, where can i find tech info on really basic qrp stuff, like the hows and whys of components in the most basic form...  
i hve seen a few simple kits that i could build, but i want to know why they work

mike fury  
kc2bkr

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997

From: Michelle Springer <mls@flash.net>  
Subject: [18949] REMOVE  
Message-ID: <1.5.4.32.19970505032929.006a1cd0@pop.flash.net>

REMOVE

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997  
From: ptaber@microtest.com  
Subject: [18965] Re[3]: Keyer vs Bug  
Message-ID: <9705058628.AA862839863@microtest.com>

>1) I called a CQ at about 35 wpm one day and a fellow called me  
>back at about 15/20 wpm and poorly sent at that! (We do all know  
>that you should reply to someone at the same speed they are calling  
>don't we??).

No, I didn't know that. I thought that the procedure was to respond at the  
callers speed if you were comfortable at that speed or slower -- at the speed  
you could copy comfortably -- if you were slower. That is, the slowest sets the  
pace. At that point, the caller should come back at the respondent's speed,  
whatever it was -- even if it's just to brush him off.

Of course, bug users have a harder time adapting their speed, but it's just one  
more challenge of bug operation.

>>>==>PStJTT

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997  
From: "Paulette Quick, WB9VHF" <plquick@facstaff.wisc.edu>  
Subject: [19015] Room available for Dayton  
Message-ID: <v03007801af93a59d2e3d@[144.92.104.132]>

I will be rooming with some Madison WI folks, so I can give up my room at  
the Days Inn South. Anyone here interested?

Paulette Quick, WB9VHF  
Madison WI  
plquick@facstaff.wisc.edu

Milliwatt (Millie), the adventuresome budgie, Thelma & Louise, the crazed

lovebird sisters, and soon, Sierra, the lutino tiel

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997  
From: Richard Wilkerson <richqrp@cts.com>  
Subject: [19021] SG-2020  
Message-ID: <336E4DD9.6424@cts.com>

I know that the group buy is off... Does anyone know where we could buy one of these rigs??????

Thanks.....rich

--

Rich Wilkerson, WD6FDD, Santee, Ca.  
NorCal, ARCI, ScQRPions, E.C.R.A.

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997  
From: W0rw@kktv.com  
Subject: [19030] Sierra 6 Meter Module  
Message-ID: <199705052232.SAA56967@nss2.CC.Lehigh.EDU>

i would like to know the results of the 6 meter sierra module that was being designed by someone here on the QRP-L.

Paul Signorelli V  
P.O. BOX 6069, Colorado Springs, CO 80934  
w0rw@kktv.com  
<>< Wise Men Still Seek HIM <><

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997  
From: Stan Skelton <sskelton@cln.etc.bc.ca>  
Subject: [18971] Specs on LM384 chip???  
Message-ID: <Pine.SUN.3.95.970505074704.28641A-100000@cln>

Hi all...I've come across a 14 pin LM384N chip in an old PYE fm commercial receiver (I'm tearing down for parts). It's on a small circuit board that looks very much like the circuit used with an LM386 audio amp. Paul's very fine book lists a 14 pin LM380 and I'm wondering if I can get a spec sheet (on a web page hopefully) for this chip or is it just like the 380?

tnx in advance.

VE7SKT QRP-L #34, OHR Sprite 80, 38 Sp.

VE7SKT

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997  
From: Frank G3YCC <g3ycc@gqrpclub.demon.co.uk>  
Subject: [19028] Swop Mags?  
Message-ID: <862871081.0522212.0@gqrpclub.demon.co.uk>

If anyone in USA would like to swop radio magazines, I take Radcom (RSGB)  
and would be interested in hearing from you.  
Frank G3YCC  
QRP Web Site: <http://www.gqrpclub.demon.co.uk>

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997  
From: "Thomas J. Whalen" <whalen@swcp.com>  
Subject: [18947] Ten Tec Supply F.S.  
Message-ID: <Pine.SUN.3.91.970504205207.3057C-100000@kitsune.swcp.com>

Hello again! I posted this a while back and lost the response to this so  
I appologise to the original responder! No need for this Ten Tec model  
250 power supply. Will power the Argo and the 405 amp. I have the manual  
and says supply is good for about 8 amps. Will trade for something of  
equal value or if I have to, will take about 40.00 OBO. Thanks Tom WB5QYT

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997  
From: Cailean@aol.com  
Subject: [18991] thanks for the info (was: questions regarding hows and whys)  
Message-ID: <970505134835\_147063372@emout16.mail.aol.com>

thanks for all of the suggestions on where to get basic info.

for those who asked, call: kc2bkr qth: orange county, ny rig:still looking

i dropped out of the radio scene about 8 years ago when i went away to

college and had to return the loaner hf rig i was using. i never thought i could afford to get back on the air until i discovered qrp operation.

hopefully, i'll be back on in the next month and working towards that upgrade to general (have to build the code speed though). thanks again for the info, and my compliments on an overall very friendly mailing list....

mike fury  
kc2bkr

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997  
From: "Paulette Quick, WB9VHF" <plquick@facstaff.wisc.edu>  
Subject: [19025] Thanks, room is taken  
Message-ID: <v03007804af93ba8f1a35@[144.92.104.132]>

A fast poster has taken the room I have given up.

BTW, it amazes me at the low number of Dayton related posts compared to the last couple of years, especially considering the high number of FDI participants.

Of course, there are a lot of for-sale posts of people making money so they can buy more goodies at Dayton. ;)

Paulette Quick, WB9VHF  
Madison WI  
plquick@facstaff.wisc.edu

Milliwatt (Millie), the adventuresome budgie, Thelma & Louise, the crazed lovebird sisters, and soon, Sierra, the lutino tie!

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997  
From: sarraf@thermacore.com  
Subject: [18941] Transporting rigs  
Message-ID: <85256487.0043C1C7.00@tci-nt01.thermacore.com>

Airport security continues to amaze me. About a year ago I had to take a flight to help conduct an off-site test. Part of the hardware I took

consisted of an aluminum briefcase full of tools, pressure guages, and spare pipe fittings. Since it was equally important that both I and the tools arrived at the test site, I decided to try to carry the case with me. I had to empty my pockets and take off my glasses to be able to clear the metal detector, but the briefcase went through the x-ray machine without a whimper. On the return flight I checked the case because it was no longer so important. I had to wait anyway because the metal detector found the foil logo on the credit card of the person in front of me, and it took several minutes for the security people to realize that his charge card was the source of the problem.

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997  
From: tahrens1@juno.com  
Subject: [18944] TS-940 Modifications?  
Message-ID: <19970504.204935.9878.0.tahrens1@juno.com>

I just got a 940, and am wondering if there are any 'mods' that folks have done over the years.

I've noticed some 'crackling' on signals using fast AGC, and figured there must be something that can be changed.

I also noticed that if you have the 'pitch' control in the center, that you hear some of the opposite sideband (like on a CW signal). Of course, it is worse on strong signals. If you turn it to the 2 o'clock position, most of the other sideband disappears.

The chips inside are marked with an 88 date code, and there is a kenwood sticker in it that's marked 91, so I figure its between 6 & 8 years old.

It probably needs a good tune-up, so I'll get a service manual and go for it..

Just wondering if anybody has seen fixes/mods/etc.

Thanks all!

Tim W5FN

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997  
From: "Brian K. Short" <ke7gh@primenet.com>  
Subject: [18956] Web Page Updated <http://www.qsl.net/k7on>  
Message-ID: <3.0.1.32.19970505054838.007325a0@mailhost.primenet.com>

Web Page Updated <http://www.qsl.net/k7on>

Brian Short 1994 E Laguna Dr Tempe, Az 85282 (602)839-3484  
k7on@qsl.net >or< ke7gh@primenet.com <http://www.qsl.net/k7on>

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997  
From: Bill Acito 05-May-1997 0852 <acito@asdg.ENET.dec.com>  
Subject: [18962] Zinc Chromate... Thanks for the leads.  
Message-ID: <9705051254.AA08783@us1rmc.bb.dec.com>

re: painting aluminum

I was able to locate some zinc phosphate primer at a marine  
supply shop over the weekend. Thanks to all for their responses.

b

. . . . . - I own my own words - . . . . .  
Bill Acito acito@asdg.enet.dec.com  
|d|i|g|i|t|a|l| Digital Equipment Corporation Hudson, MA

W1PA qrp-ne qrp-l adv-rs arci norcal amsat-na arrl-life  
Mobile A0-27: 31 states, 52 grids, 4 countries from FN42

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997  
From: Jim Bennett <jbennett@ebmud.com>  
Subject: [19016] [Fwd: big black power station]  
Message-ID: <336E3C91.69DF@ebmud.com>

Daniel K. Early wrote:

>

> Is the "big black powerr station" the Power Station with the voltmeter



> advertized in QST with a handle on the top. Any experiences with these??

Dan - I believe it is. And, I've had one for over a year now. Love it. Wouldn't want to take it backpacking though - its kinda heavy! :-)  
I have been car camping with it several times in the Sierra Nevada and used it with my OHR-400 - seems like it'll run a QRP rig forever. I also use it here at work to power my FT-51R handheld dual bander. Nice power source. In fact, it might be a good addition to the emergency supply bin for those of us living in areas where Mother Nature likes to make things unpleasant (earthquakes, tornados, hurricanes, etc.) Got mine at a local HRO for about \$60 or so, if I recall.

-----  
Jim Bennett / W6JHB (jbennett@ebmud.com)  
Supervising Systems Programmer  
East Bay Municipal Utility District  
Oakland, CA 94607  
voice: 510.287.0224 / fax: 510.287.0373  
-----

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997  
From: wb2vuo@juno.com (William K Hibbert)  
Subject: [18945] Re: 50uW Beacon Report  
Message-ID: <19970504.223249.7791.4.wb2vuo@juno.com>

Yes & no. Energy does drop off at the inverse of the square of the ratio of the change in distance (the Inverse Square Law), but the Miles per Watt has been used for more than 50 years for a quantitative measurement of relative station performance. It's a straight ratio, D/P.

The earliest reference to miles per watt was in the ARRL book "200 Meters and Down", out of print (I think), but it made reference to the first ZL-G QSO back in the 20's. The ZL station was running a "1-Watt Valve transmitter with only a 45V B-battery, resulting in somewhat less than a Watt..." and that was input, so the output was in the milliwatt range. With a DX of 11,200 miles, the QSO was listed as 20,000 miles per watt.

Similar records were listed in several late 50's/early 60's publications that I latched onto when I first got my ticket, and the record, back in the early 60's was a 100 mW QSO, both sides, from a VK3 and a W9, 8700 miles for 87,000 miles per watt.

Rich's reception is not a record setter, but with the noise on 80M this weekend, it's a real test of his "ears", both the ones on his noggin, and the ones in his Yaesu :-)

The best I could do was the 10 mW code word, and I am at 240 miles, more or less, for about 24,000 Mi/Watt. Tain't bad, especially with a T-storm over my head almost...

72/73, Keith, WB2VUO, QRP-L #582, scQRP 40, 100% QRP  
Tech Specialist (ARRL/WNY), ARRL Life Member,  
Trustee, KB2YTW/B 10 Mtr QRP Beacon (4 Watts @ 28.2870 MHz)  
"In the Depths of the Great Bergen (NY) Swamp...FN13ac"  
Packet - wb2vuo@w2im.#wny.ny.usa.noam \*\*\* Email - wb2vuo@juno.com  
SnailMail - CBA \*\*\* Phone - 716.494.1239

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997  
From: k7sz@juno.com (Richard H. Arland)  
Subject: [19033] Re: 50uW Beacon Report  
Message-ID: <19970505.224903.6959.14.k7sz@juno.com>

On Mon, 5 May 1997 11:20:41 -0500 (EST) "James C. Owen, III"  
<owen@piper.eeel.nist.gov> writes:  
> on Sunday at 1124Z the copy was almost armchair. Got the 50uw at a 329  
but only  
>due to QSB and a little QRM, most of the time it was 449. I'm 102 miles  
so I  
>guess I beat you with 2,040,000 miles/watt.

OUTSTANDING JOB, Jim!

I'll have to try that dawn trick....problem is getting his old bod  
working prior to sunrise!

73 rich K7SZ

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997  
From: n4js@amsat.org  
Subject: [19017] RE: big black power station  
Message-ID: <XFMail.970505160220.n4js@amsat.org>

On 05-May-97 Daniel K. Early expounded:  
>Is the "big black powerr station" the Power Station with the voltmeter



>>way is OK, but let me know.

>>

>>tx es 72

>>

>>Dick AB0CD..

>>

>>

>>

>>

>

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997

From: "David Yanke" <n9ssg@pobox.com>

Subject: [19007] Re: Creation by Computer

Message-ID: <199705051856.NAA04263@mail.xnet.com>

its nice to know someone took the responsibility to  
> take ownership and copyright it, hate to have anything for free anymore.

What does something being copyrighted have to do with whether or not  
something is free?

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997

From: Bob Hightower <ki7mn@dancris.com>

Subject: [19011] Re: Creation by Computer

Message-ID: <199705051917.MAA16877@dancris.com>

At 01:55 PM 5/5/97 +0000, you wrote:

> its nice to know someone took the responsibility to  
>> take ownership and copyright it, hate to have anything for free anymore.

>

>What does something being copyrighted have to do with whether or not  
>something is free?

>

>

>

A copyright to the written word is like a patent to the machine...it implies ownership of the word as the author of the word. No one can copyright a word, but a series of words, i.e. a book, can be. You can't generally patent

a machine screw (already been done), but you can patent a machine built with them.

Thus, if you have some work, text or graphics or whatever, and you copyright that work, you own it and it may not be used without your permission. If you choose to let others use it without payment, well and good, but they have to get your permission first.

73,

Bob KI7MN (ki7mn@dancris.com) Chandler, AZ Grid DM43bi Lat 33.334500 Long -111.87260

NorCal #1221 ARCI #8918 Qrp-1 #271 CQC #274 AK QRP #30 ARRL

<http://www.dancris.com/~ki7mn>

WIMPS: QSO's=17 30=17 17=0 12=0 States=14/0/0 DX 0/0/0 QSL's=5

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997

From: "Jerry Martin" <jmartin@tofu.alt.net>

Subject: [19019] Re: Creation by Computer

Message-ID: <199705052029.NAA24797@tofu.alt.net>

> its nice to know someone took the responsibility to  
> > take ownership and copyright it, hate to have anything for free anymore.  
>  
> What does something being copyrighted have to do with whether or not  
> something is free?

Me too.

Copyright 1997 by Jerry Martin. All rights reserved.

\*\*\*\*\*

Jerry Martin

NOBWA

jmartin@alt.net

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997

From: "Marshall Emm" <mgemm@mtechnologies.com>

Subject: [18999] Re: Fixing a broken toroid

Message-ID: <199705051829.MAA28777@lynx.csn.net>

>>If any of the physicists or magnetics experts out there  
have any comments or observations, I'd love to hear from

you!  
<<

I'm neither, but I'm pretty good with mechanicals and think it might be appropriate to observe that:

- a) I've never broken a toroid,
- b) I've never filed notches in one, and
- c) I HAVE filed notches in many other brittle things with the specific intention of breaking them.

So I have to wonder if filing notches in a toroid is a particularly good idea [g].

73  
Marshall Emm  
AA0XI/VK5FN  
aa0xi@mtechnologies.com  
<http://www.mtechnologies.com/mthome>  
<http://www.mtechnologies.com/mthome>

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997  
From: Wayne Glover <wayneg@ci.ogden.ut.us>  
Subject: [19024] Re: Heathkit and other old gear manuals available (CORR)  
Message-ID: <336E40B5.43B0@ci.ogden.ut.us>

Sorry folks. can't read and type. correct e-mail for Dave Fisher is  
<utahfolk@konnections.com> Note that it is utahfolk not utahfolks.

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997  
From: "Mark S. Adams" <msadams@acsu.buffalo.edu>  
Subject: [18938] Re: How Efficient is a Hellically Wound Vertical?  
Message-ID: <Pine.GS0.3.95.970504200814.29611B-100000@lictor.acsu.buffalo.edu>

Hi to Kevin, Rich and the Gang,

You folks have hear me say all this before but it bears repeating.

I was afraid to put up a vertical antenna for the reasons Rich mentioned.  
But I did it anyway. I installed a HB 33' A1 vertical with its base at 4'

and put up 4 34' raised radials. WHAT A SHOCK! On at least 80% of ALL signals on the 40M band it beat my 40M delta loop.

Over the course of a few months I changed my loops configuration between vertical and horizontal polarization, tried it with the apex up and then down and even changed the feedpoint locations on the variations. All to no avail. The vertical was still better on 80% of the signals.

I enjoyed this antenna so much I bought a used Butternut HF6V, ground mounted it with 24 radials ranging from about 10 to 130 feet in length (measured exactly none of them) and now have a bunch of bands on one feedline. I did not even follow B\*Nuts instructions. I used all 75 ohm hardline free from the cable company.

The results are great and now I have a leftover stick that I can phase with the B\*nut for 40M operations.

Bottom Line: Theory is nice but but sometimes the \*theory\* that you think is operating is NOT! That is what makes engineering interesting. You have to make assumptions that are valid based upon what you believe is the correct underlying principle. It is easy to assume the wrong underlying principle!

72, Mark N2VPK Member of the Buffalo QRP Connection

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997  
From: Scott Bauer <ke3nv@erols.com>  
Subject: [18950] Re: How Efficient is a Hellically Wound Vertical?  
Message-ID: <199705050352.XAA06817@smtp1.erols.com>

Hi,

My "vertically polarized, omni directional, air cooled dummy load" has confirmed 52 countries and 49 states using 3 watts or less and out performs my G5RV on most bands. Im using 32 roof mounted radials.

72, Scott

>  
>On Sat, 3 May 1997 21:21:30 -0400 "Kevin F. Glynn" <kfglynn@prodigy.net>  
>writes:  
>>Hi gang,  
>>Now, how efficient is it really?  
>  
>Efficiency is directly related to the size of the counterpoise or "ground

>radials" that you use. I personally think that most (about 98%) of the  
>vertical antennas I have used are nothing more than vertically polarized,  
>omni directional, air cooled dummy loads.

>

>

>73 rich K7SZ

>

>

>

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997

From: Scott Bauer <ke3nv@erols.com>

Subject: [18951] Re: How Efficient is a Hellically Wound Vertical?

Message-ID: <199705050353.XAA11372@smtp3.erols.com>

>Date: Sun, 04 May 1997 23:52:57

>To: k7sz@juno.com, QRP-L

>From: Scott Bauer <ke3nv@erols.com>

>Subject: Re: How Efficient is a Hellically Wound Vertical?

>

> Hi,

>

> My "vertically polarized, omni directional, air cooled dummy load"  
>has confirmed 52 countries and 49 states using 3 watts or less and  
>out performs my G5RV on most bands. Im using 32 roof mounted radials.

>

> 72, Scott

>>

>>On Sat, 3 May 1997 21:21:30 -0400 "Kevin F. Glynn" <kfglynn@prodigy.net>

>>writes:

>>>Hi gang,

>>>Now, how efficient is it really?

>>

>>Efficiency is directly related to the size of the counterpoise or "ground  
>>radials" that you use. I personally think that most (about 98%) of the  
>>vertical antennas I have used are nothing more than vertically polarized,  
>>omni directional, air cooled dummy loads.

>>

>>

>>73 rich K7SZ

>>

>>

>>

>

72&73 de Scott Bauer W3CV, Odenton, MD. grid FM19. Formerly KE3NV



Fists 1502                      QRP Nut   SWL   Truck Pilot                      ARRL  
Current QRP rigs: Green MTN 15 & 17, HW-8, G-QRP GQ-40  
S&S Eng   ARK-20, ARK-30, ARK-40, TAC1-80. Emtech NW-8030  
49er                      38 special at 300mw  
visit my web page at <http://www.erols.com/ke3nv/>

From owner-qrp-1@Lehigh.EDU   Mon May   5 18:04:21 1997  
From: k7sz@juno.com (Richard H. Arland)  
Subject: [18957] Re: How Efficient is a Hellically Wound Vertical?  
Message-ID: <19970505.110139.6959.11.k7sz@juno.com>

On Sun, 4 May 1997 23:52:49 -0400 Scott Bauer <ke3nv@erols.com> writes:  
> Hi,  
>  
> My "vertically polarized, omni directional, air cooled dummy load"  
> has confirmed 52 countries and 49 states using 3 watts or less and  
> out performs my G5RV on most bands. Im using 32 roof mounted radials.

Good for you! Obviously you installed it correctly. Congratualtions.

73 rich K7SZ

From owner-qrp-1@Lehigh.EDU   Mon May   5 18:04:21 1997  
From: Cecil A Moore <Cecil\_A\_Moore@ccm.ch.intel.com>  
Subject: [18987] Re: How Efficient is a Hellically Wound Vertical?

>From: k7sz@juno.com (Richard H. Arland)  
>To: kfglynn@prodigy.net  
>>I'd like to get raised radials.....

>Actually, if you elevate the feedpoint of the vertical antenna, the  
>feedpoint impedance drops dramatically.

Hi guys, I must point out that ground loss resistance is in series with the feedpoint impedance and that's why the feedpoint impedance drops dramatically when the radials are raised. This is a GOOD thing. The feedpoint impedance is dropping because the ground losses are reduced. You can use a UNUN for matching or bring the feedpoint impedance back up by using more elevated (slanted-down) radials - 64 is a good number to use. 128 is better.

Re: Hellically Wound Verticals - make the antenna as long as possible and space the turns as far apart as possible. Use bare copper wire on a support rated for RF. Do not use a helical on a higher band than it's resonant band.

73, Cecil, W6RCA, OOTC

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997  
From: gsurrency@juno.com (Gary L Surrency)  
Subject: [19031] Re: IC720A Filter Unit  
Message-ID: <19970505.153223.9870.1.gsurrency@juno.com>

Dave,

There was an article in QST November 1995 (page 83, Hints and Kinks) about this rig's self-destructing low-pass filter design. The cure was to decrease the current to the rotary relay to reduce the wear and tear on the mechanical components.

If you can't find this issue, I could fax it to you from the issue I have.

72 and good luck,

Gary Surrency AB7MY  
QRP-L #571 Chandler, AZ (near Phoenix) Grid Square DM43BH  
Az ScQRPions

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997  
From: Cecil A Moore <Cecil\_A\_Moore@ccm.ch.intel.com>  
Subject: [18977] Re: low impedance parallel line?

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997  
From: Brad Mugleston <bmug@gw1.com>  
Subject: [18988] RE: Mobile Antennas  
Message-ID: <01BC5947.BAABC2A0@pps-pc10.gw1.com>

Per Larry's request here is a copy of the antenna results that were sent to me. I believe they originated in an article in World Radio. Per Cecil the score is in dB's (3 dB change twice the power change)

ANTENNA

SCORE

|                                               |      |
|-----------------------------------------------|------|
| Coiled homebrew with capacity hat             | 58.9 |
| Broadbander BB3 102" whip (screwdriver)       | 58.4 |
| DK3 - homebuilt (screwdriver)                 | 58.4 |
| California Bugsmasher                         | 58.4 |
| Broadbander BB3 /w capacity hat (screwdriver) | 58.3 |
| Texas Bugcatcher                              | 58.0 |
| Broadbander BB3 (90 height mod)(screwdriver)  | 57.4 |
| Coiled homebrew                               | 56.5 |
| Super Resonator Hustler                       | 50.2 |
| Hamstick                                      | 48.2 |

-----  
 From: Lawrence S Cahoon[SMTP:Lawrence.S.Cahoon@ccMail.Census.GOV]  
 Sent: Monday, May 05, 1997 11:11 AM  
 Subject: Re: Mobile Antennas

Brad, can you post the numbers to the group for the rest of them. I haven't found the article yet, tnx and 72 de Larry....WD3P

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997  
 From: "Harold Brian Robinson" <robinson@plhp002.comm.mot.com>  
 Subject: [18993] Re: Mobile Antennas  
 Message-ID: <9705051352.ZM8707@plhp190.comm.mot.com>

On May 5, 11:30am, Brad Mugleston wrote:

> Subject: RE: Mobile Antennas  
 > Per Larry's request here is a copy of the antenna results that were sent to  
 > me. I believe they originated in an article in World Radio. Per Cecil the  
 > score is in dB's (3 dB change twice the power change)

>  
 > ANTENNA SCORE  
 >  
 > Coiled homebrew with capacity hat 58.9  
 > Broadbander BB3 102" whip (screwdriver) 58.4  
 > DK3 - homebuilt (screwdriver) 58.4  
 > California Bugsmasher 58.4  
 > Broadbander BB3 /w capacity hat (screwdriver) 58.3  
 > Texas Bugcatcher 58.0  
 > Broadbander BB3 (90 height mod)(screwdriver) 57.4  
 > Coiled homebrew 56.5  
 > Super Resonator Hustler 50.2  
 > Hamstick 48.2

>  
>  
>  
> -----  
> From: Lawrence S Cahoon[SMTP:Lawrence.S.Cahoon@ccMail.Census.GOV]  
> Sent: Monday, May 05, 1997 11:11 AM  
> To: bmug@gwl.com  
> Subject: Re: Mobile Antennas  
>  
> Brad, can you post the numbers to the group for the rest of them. I  
> haven't found the artical yet, tn timer and 72 de Larry....WD3P  
>  
>  
>  
>  
>-- End of excerpt from Brad Mugleston

Does anyone have plans or a drawing for the winner (coiled homebrew w/ capacity hat)??

thanks  
73 N3GDE Brian Robinson

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997  
From: "Claton Cadmus" <aplitech@Spacestar.Net>  
Subject: [18994] Re: Mobile Antennas  
Message-ID: <199705051803.NAA09355@Spacestar.Net>

The article in question is QST Sep-95, "California Mobile Antenna and the Moment of Truth" Page 68.

The numbers are "Corrected Field Strength(dB)".

If you HF mobile this article is a very good read.

Hope this helps 73 de KA0GKC

: I believe they originated in an article in World Radio. Per Cecil the  
: score is in dB's (3 dB change twice the power change)

|   |                                              |
|---|----------------------------------------------|
| : |                                              |
| : | ANTENNA                                      |
| : | SCORE                                        |
| : |                                              |
| : | Coiled homebrew with capacity hat 58.9       |
| : | Broadbander BB3 102" whip (screwdriver) 58.4 |
| : | DK3 - homebuilt (screwdriver) 58.4           |

|                                            |      |
|--------------------------------------------|------|
| : California Bugsmasher                    | 58.4 |
| : Broadbander BB3 /w capacity hat (scrdrv) | 58.3 |
| : Texas Bugcatcher                         | 58.0 |
| : Broadbander BB3 (90 height mod)(scrdrv)  | 57.4 |
| : Coiled homebrew                          | 56.5 |
| : Super Resonator Hustler                  | 50.2 |
| : Hamstick                                 | 48.2 |

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997  
 From: "Michael A. Gipe" <mgipe@reliablemeters.com>  
 Subject: [18995] Re: Mobile Antennas  
 Message-ID: <199705051804.NAA04623@multi13.netcomi.com>

```
> snip...
>
> ANTENNA                                SCORE
>
> ...snip...
> California Bugsmasher                  58.4
> ...
> Texas Bugcatcher                      58.0
```

Seems consistent: CA vs TX ; -)

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997  
 From: AE0Q V31RY <v31ry@ix.netcom.com>  
 Subject: [19018] RE: Mobile Antennas  
 Message-ID: <2.2.16.19970505201248.0a973e98@popd.ix.netcom.com>

It's interesting to note that in the ARRL Antenna Handbook, a form diameter of 1" to several inches is recommended for a short continuously loaded vertical antenna. They imply that the efficiency could be better than a center-loaded vertical, but maybe the small diameter of the Hamstick rods makes them less than they might be.

Another point they mention is that center-loading a mobile antenna is a good compromise, but that placing the coil 2/3 the distance up the whip is the optimum position. I think most of the Hustler resonators end up in the 2/3 position.

```
>ANTENNA                                SCORE
<snip>
>Super Resonator Hustler                50.2
>Hamstick                               48.2
>
```

73 -- Glenn

"Remember, any tool can be the right tool!" Red Green

AE0Q / V31RY                    ex: GM5BKC, ZB2WZ, SV0WY, WA0VPK  
v31ry@ix.netcom.com        --SOWP 5558-M, QCWA LM, ARRL LM, NCVA--  
<http://www.qsl.net/ae0q>

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997  
From: Chris <c\_sieg@conknet.com>  
Subject: [18959] RE: MOSFET  
Message-ID: <Chameleon.862833820.c\_sieg@conknet.com>

Hi John, et all,  
If you check my web page you will find the VN10KM and some other nifty stuff.  
URL is [www.conknet.com/piexx](http://www.conknet.com/piexx)

Then follow to PIEXX and Components.

73's  
-Chris

Name: Chris WA3LDI  
E-mail: Chris <c\_sieg@conknet.com>  
URL <http://www.conknet.com/piexx>  
From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997  
From: Chris Trask <ctrask@primenet.com>  
Subject: [18966] Re: MOSFET  
Message-ID: <Pine.BSI.3.95.970505063748.10643A-100000@usr01.primenet.com>

On Mon, 5 May 1997, John R. Morris wrote:

```
> Hi gang,  
> Does anyone know of a source for the VN10KM MOSFET? Or a substitute?  
>  
> 72  
> John  
>
```

```
> 72
> John
>
```

> John

>

The VN10KM is made by Siloconix, which is now owned by a group called Temic, which also owns Telefunken. They have a toll-free number (800) 554-5565, as well as a Fax Back System at (408) 970-5600. They may have a web site, but it's not listed in the data book.

Chris

Email: [ctrask@primenet.com](mailto:ctrask@primenet.com)

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997  
From: JEVERHART@cayman.vf.mmc.com  
Subject: [18978] Re: MOSFET  
Message-ID: <970505095938.20684ea3@cayman.vf.mmc.com>

As far as a substitute, that depends. I chose the VN10 for the Rainbow Tuner since it has a rather low turn-on voltage. I also tried the 2N7000 and VN2222 and found that they had a higher turn-on voltage, although the VN2222 was better than the 2N7000.

In the Rainbow, the difference is that the circuit will turn on with less than 150 mw of RF applied using the VN10KM (in the 10 samples I tried). With the VN2222, it took just under 200 mw. And the batch of 2N7000 devices I tried needed slightly over 200 mw of RF to operate. Other than that, any of them would work as well in that application. Now I know what the spec sheets for these devices say, but there's no substitute for actually checking them in the way you want to use them!

Where do you want to use the device? This will help in picking a substitute.

72/73,

Joe E., N2CX

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997  
From: WD6BOR@aol.com  
Subject: [18986] Re: MOSFET  
Message-ID: <970505132842\_-466825191@emout18.mail.aol.com>

In a message dated 97-05-05 01:41:06 EDT, n0acs@juno.com (John R. Morris) writes:

<<

Hi gang,

Does anyone know of a source for the VN10KM MOSFET? Or a substitute?

72

John

>>

Dan's Small Parts, P.O.Box 3634, Missoula, MT, 59806-3634, 406-258-2782

I got some VN10K's about a month ago for 60 cents each. Check out Dan's web page via the Norcal page for his complete and current catalog.

A satisfied customer,

Darrel, WD6BOR

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997  
From: Cecil A Moore <Cecil\_A\_Moore@ccm.ch.intel.com>  
Subject: [18980] Re: Multi-band wire antenna



>From: tedk4mkx@nmaa.org (Edward Beach)  
>We want to design an antenna/feedline SYSTEM which will do the best it  
>can on as many bands as possible without a tuner; if we have to use a  
>tuner later, we will; but let's see how far we get without one. We  
>also would like to make as much of the feeder be open-wire line as  
>possible, again to minimize losses.

Hi Ted, good posting. On my web page I show how to start out with the  
102 ft G5RV center-fed dipole length and improve it into a super  
efficient multi-band antenna. I use a single \*virtually lossless\*  
parallel capacitor across the ladder-line to achieve a perfect match  
without a conventional tuner. How to do it is at:

<http://www.geocities.com/CapeCanaveral/8476>

73, Cecil, W6RCA, 00TC

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997  
From: Bob Patten <n4bp@shadow.net>  
Subject: [19006] Re: NA Contest Program & QRP contest help.  
Message-ID: <Pine.SOL.3.91.970505145338.27716C-100000@hyper>

On Sun, 4 May 1997, Ronald J. Polityka wrote:

> Hello fellow QRPers. I am new to the QRP-L and it looks great.  
> I have a problem with my NA Contest Program Version 9.27. I am doing  
> something wrong and I can't figure it out. I keep getting 35 pts. for each  
> contact. If you use the NA program how do you have your contest template  
> set up. Any help will be appreciated.

>

The way the template is set up, the power multiplier is applied to each  
QSO for the QSO points. Sounds like you're running 5W in the QRP ARCI  
which allows a X7 multiplier. If your non-member QSO's are also showing  
as 35 pointers, you're probably only putting in a number - like "5" for 5  
watts. The program uses a "W" as a pointer to a non-member, so you would  
need to enter "5W" for example. I got caught entering "QRO" for a couple  
of Q's in one of the contests which showed up as members...  
Oh yes, the scoring is hard coded so you cannot change it via the template.  
Good luck.

73,

Bob Patten, N4BP  
n4bp@shadow.net  
Brass Pounder BBS (954) 472-7715

Plantation, FL  
<http://www.shadow.net/~n4bp/n4bp.htm>

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997  
From: ldeering@idt.net (Larry Deering)  
Subject: [18983] Re: Need Info on Grid Dip Meter  
Message-ID: <199705051709.NAA16854@u3.farm.idt.net>

My fathers friend Al, W2G\_ (his two letter call had a few more dahs, and three less dits than mine) didn't like a neighbors TV set bothering him at his NJ shore house. Al turned off the lights (so the neighbor couldn't see in), and turned on the GDO. As the neighbor got up and touched the set, Al would change frequency to stop the interference. A little later, a light tap on the side of the TV was required to fix it. Pretty soon, a thump, then several good whacks. Near the end, using very bad language, the neighbor beat up the TV set, ranting and raving!

I pity Brian's neighbors! :-)

72, Larry W2GL

=====  
Brian WA5PP0 wrote a postscript about the virtues of a GDO:

PS I can take out channels 2 thru 5 from 50 feet with the Millen, no sweat. The boob tube never had a chance! Hi Hi.

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997  
From: Vic Rosenthal <rakefet@rakefet.com>  
Subject: [19003] Re: Need Info on Grid Dip Meter  
Message-ID: <336E29FE.1A5F@rakefet.com>

Larry Deering wrote:

>  
> My fathers friend Al, W2G\_ (his two letter call had a few more dahs,  
> and three less dits than mine) didn't like a neighbors TV set bothering him  
> at his NJ shore house. Al turned off the lights (so the neighbor couldn't  
> see in), and turned on the GDO.

True story:

Round about 1957-8, my dad sent me to my attic room for some forgotten offense. The Pennant-determining game was on TV, and I really wanted to watch it. Out came the brand-new Heathkit GDO; I coupled it to the

bathroom vent pipe and carefully adjusted it until I heard his voice shouting "GodDAMMIT!" I poked my head out the door and politely asked what was the matter. "Damn TV!", he said. "If I fix it, can I watch the game?", I asked.

Needless to say, it wasn't hard to fix. Ten years later, I confessed.

Vic K2VCO

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997  
From: wb2vuo@juno.com (William K Hibbert)  
Subject: [19023] Re: Need Info on Grid Dip Meter  
Message-ID: <19970505.172213.7791.2.wb2vuo@juno.com>

----- Begin forwarded message -----  
From: ldeering@idt.net (Larry Deering)  
Subject: Re: Need Info on Grid Dip Meter  
From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997  
From: ptaber@microtest.com  
Subject: [18997] Re:New way to charge Lead-Acid batteries?  
Message-ID: <9705058628.AA862856371@microtest.com>

>I recently purchased a Ryobi Cordless Trimmer, model 150R. The  
>instructions for operation of the unit said to charge the sealed  
>lead-acid battery for at least 36 hours before use and to charge at least  
>24 hours between uses.  
>I mounted the charger on the wall as instructed and charged the battery  
>for 40 hours. However before I used the trimmer, I measured the output  
>voltage from the charger as 11.4 vdc. I disassembled the trimmer battery  
>case and measured the battery as 13.3 vdc. Hmmm.  
>I called the Ryobi Service Center and asked about what I thought was a  
>disparity in charging voltage and unit being charged (11.4 versus 13.4).  
>I was told that the charger was putting out the correct unloaded voltage  
>and it would properly charge the battery. Just use the trimmer, charge  
>the battery as the instructions say and everything will be alright.  
>I stated that according to all my experiences in charging batteries and  
>using them that I had never been able to fully charge the battery with a  
>charger that didn't have more output voltage than the battery. I further  
>stated that I never got full use of any battery that had been charged as  
>per his reply. The rep said that Ryobi has been selling these trimmers  
>with the chargers only putting out 9.6 to 11.5 vdc for seven years  
>without any complaints such as mine and that I should return the trimmer  
>to where I purchased it and get another brand if I wasn't satisfied with  
>the trimmer. So much for good customer relations!  
>I purchased another charger that puts out 12 vdc @ 100 milliamps of

>current and I use that to charge the trimmer. So far I've been able to  
>run the trimmer for more than an hour (very large lawn and lots of weeds)  
>before it needs recharging.  
>Now the question I have is: How can you adequately charge a sealed  
>lead-acid battery with a charger that puts out less unloaded voltage than  
>the battery measures? Does anybody know why this is possible as suggested  
>by the factory rep?

Let me see if I've got this straight -- you purchased a product, professionally designed and with a good service record -- which for the brief period of time you followed the instructions seemed to work just the way they said it would, and then, because you didn't understand how it worked, you abused the service rep, and proceeded to fix something that wasn't broken. Does that about sum it up? Now your question is why might it have worked the way it was designed?

My first guess is that when you measured the unloaded voltage of the charger you weren't seeing the loaded voltage. Probably, a better thing to do (if indeed there was a reason to do anything) would have been to use the tool, measure the battery voltage, charge it and see if it came back up. Or put an ammeter in the circuit.

>>>==>PStJTT

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997  
From: Ed Tanton <n4xy@bellsouth.net>  
Subject: [19000] Re: New way to charge Lead-Acid batteries?  
Message-ID: <3.0.1.32.19970505143540.00a10980@mail.atl.bellsouth.net>

According to a shall-be-nameless sales person at Home Depot several months back: Ryobi, which used to be a pretty good name, has been selling nothing but junk the past 6 months, with a very high NF return rate. That's a real shame to hear, and this just confirms it for me.

At 07:26 AM 5/5/97 -0700, emaaro@pacbell.net wrote:

>Hi all:

>I recently purchased a Ryobi Cordless Trimmer, model 150R. The  
>instructions for operation of the unit said to charge the sealed  
>lead-acid battery for at least 36 hours before use and to charge at least  
>24 hours between uses.

>I mounted the charger on the wall as instructed and charged the battery  
>for 40 hours. However before I used the trimmer, I measured the output  
>voltage from the charger as 11.4 vdc. I disassembled the trimmer battery  
>case and measured the battery as 13.3 vdc. Hmmm.

>I called the Ryobi Service Center and asked about what I thought was a



You said that you measured the output voltage as 11.4 vdc. By any chance, did you use the AC setting on your voltmeter or look at the waveform using an oscilloscope? Can you access the terminals of the battery, measure the dc voltage before charging, and then connect the charger and see if you get an increase. I wonder if the charging unit is actually putting out pulsed dc, with peaks at a level that charge but your voltmeter is trying to read an average value. That's my best guess

At , you wrote:

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>>before it needs recharging.

>>Now the question I have is: How can you adequately charge a sealed  
>>lead-acid battery with a charger that puts out less unloaded voltage than  
>>the battery measures? Does anybody know why this is possible as suggested  
>>by the factory rep?

>>

>>

>>

>>

72, Frank - WB6LMA

QRP ARCI #8959 NORCAL QRP #1387 G-QRP #9082 QRP-L #542 CQC #333 ARS #115

Lat. 42.2240      Long. 123.1671      Grid CN82HL      NE-QRP #485  
Frank McCrackin  
Address: 180 Calvert Drive      E-MAIL: wb6lma@cdsnet.net  
QTH: Grants Pass, OR 97526      FAX: 541-476-1600      Phone: 541-476-8240

From owner-qrp-1@Lehigh.EDU Mon May 5 18:04:21 1997  
From: "Arjen Raateland, SYKE/YV, puh. 09 4030 0457" <Arjen.Raateland@vyh.fi>  
Subject: [19020] Re: New way to charge Lead-Acid batteries?  
Message-ID: <01IIJ23IMUZ28Y5037@vyh21.vyh.fi>

> You said that you measured the output voltage as 11.4 vdc. By any chance,  
> did you use the AC setting on your voltmeter or look at the waveform using  
> an oscilloscope? Can you access the terminals of the battery, measure the  
> dc voltage before charging, and then connect the charger and see if you  
> get an increase. I wonder if the charging unit is actually putting out  
> pulsed dc, with peaks at a level that charge but your voltmeter is trying  
> to read an average value. That's my best guess

Long ago I made my father a car battery charger that didn't output anything until a battery with at least a minimum of residual charge was connected.

The circuit had a unijunction to 'sniff' the voltage level from the battery and a thyristor to rectify and pass pulses of DC to the battery. A zener diode was used to make the charger stop at a certain adjustable level.

The unijunction circuit worked off the battery voltage, so no battery voltage meant no trigger pulses for the thyristor and hence no output voltage/current. The circuit wasn't my own invention, but I thought it was rather smart and convinced my father that he needed a battery charger just to get to build it. Need I say that there were no UC3906 charger IC's at the time. The unijunction may well have been as expensive as this special IC, though. This was in 1968 or thereabouts.

cheerio, OH2ZAZ (PAoSCS in 1968)

Arjen Raateland

--... ..- -... . --- ..- - - - - ..- - - - - ..- - - - -

Finnish Environment Institute, Helsinki, Finland

SAS Support

EMAIL: Arjen.Raateland@vyh.fi

tel. +358 9 4030 0457

fax +358 9 4030 0490

..-.. -.-

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997  
From: Monte Stark <ku7y@sage.dri.edu>  
Subject: [19022] Re: New way to charge Lead-Acid batteries?  
Message-ID: <Pine.SUN.3.90.970505142011.8544A-100000@vortex>

Hi Frank,

I think you might be on the right track.

Around here it's very common to charge batteries with square wave DC.

I've been fooled into thinking the charger wasn't working myself, when it was really doing just fine!

Now when will someone make a meter that will only measure what we want and not just what we ask it to measure??? :-)

>From "Been there, Done that" more times than I care to remember!

cul,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....  
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997  
From: gsurrency@juno.com (Gary L Surrency)  
Subject: [19032] Re: New way to charge Lead-Acid batteries?  
Message-ID: <19970505.153223.9870.2.gsurrency@juno.com>

Emaaro,

Is it possible that you are measuring the unfiltered, pulsating DC voltage from the wall charger? That voltage would be the RMS value of the peak AC transformer voltage. That would be the case if the charger has no filter capacitor on it's rectified output.

The capacitance of the lead-acid battery may smooth out the DC pulses and therefore achieve a higher output voltage than what you measure open circuit or un-loaded. A full-wave rectifier in the charger would approach the peak value of the rms AC value. You may get as much as 1.414



times the 11.4V open circuit voltage in your email:

i.e.  $11.4V \times 1.414 = 16.12V$

Of course, the loaded voltage would be less depending on the amount of charging current and battery capacitance, resistance, etc., but you get the idea. This is a fairly common (cheap) way to charge consumer electronic devices.

Try measuring the voltage while actually charging the trimmer battery. I have done this by using sharp probes or pins to pierce the insulation on the zip cord from the charger. Be careful not to short across the conductors with the battery connected, as a LOT of current could be present. The insulation will "heal" on the zip cord when you remove your probes / pins after measurement.

Perhaps this is what is going on here. The factory rep you talked to may not understand much about rectifiers, filters, and chargers, but someone at Ryobi did figure this out, I can assure you. Every customer service rep can't possibly know it all. They don't pay 'em enough! ;-)

72,

Gary Surrency AB7MY  
QRP-L #571 Chandler, AZ (near Phoenix) Grid Square DM43BH  
Az ScQRPions

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997  
From: mdwatt@usit.net (Marty Watt)  
Subject: [19012] Re: Old QRP Quarterly  
Message-ID: <336e3385.59578605@smtp.usit.net>

On Mon, 05 May 1997 19:14:09 GMT, mdwatt@usit.net (Marty Watt)  
wrote:

>I have found in storage the July, 1991 (vol. xxix, no. 3) through  
>July 1993 (vol. XXXI, no. 3) QRP Quarterlies. July 1991 is a  
>photocopy, and all the rest are originals.  
>  
>Make an offer ...

Oh, just noticed something interesting on the bottom right of page  
37 in the July 1993 issue ... in the "Member's News" section.

=46first correct guess (post to the list, publically) wins a bona fide  
"Attaboy" or "Attagirl" of the winner's choosing ...

72 es 73 de=20  
Marty, KM7W

-----  
Jackson, Tennessee e-mail: mdwatt@usit.net  
http://www.public.usit.net/mdwatt  
"The Curmudgeon's Corner"  
NorCal #2031 - ARCI #7514 - QRP-L #953 - AK/QRP #098 - Grid EM55oq  
-----

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997  
From: Bill Kullmann <kullmann@lion.documentum.com>  
Subject: [18942] Re: Pete Rossi WA3NNA <wa3nna@pete.resuba.com>: Re: 50uW Beacon  
Report  
Message-ID: <336D2384.7682@lion.documentum.com>

Rich,

Don't mean to picky, but these things just jump out at me and can't help  
it. I may be wrong in thinking, but I think power drops off at  $1/r^2$ ,  
not  $1/r$ , which would give you 12,869 miles/watt.

Assuming no loss in hops, that's half way around, so who needs more?

-Bill

>  
> 91 miles / 50uWatts = 1.82 MILLION miles-per-watt! Not bad for an old  
> fart using a 20 year old QRP rig (no DSP!) and a Zepp antenna @ 45 ft. in  
> the middle of a city!

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997  
From: "James C. Owen, III" <owen@piper.eeel.nist.gov>  
Subject: [18973] RE: Pete Rossi WA3NNA <wa3nna@pete.resuba.com>: Re: 50uW Beacon  
Report  
Message-ID: <40842.owen@piper.eeel.nist.gov>

In message Sat, 03 May 1997 16:44:13 EDT,  
k7sz@juno.com (Richard H. Arland) writes:

> 91 miles / 50watts = 1.82 MILLION miles-per-watt! Not bad for an old  
> fart using a 20 year old QRP rig (no DSP!) and a Zepp antenna @ 45 ft. in  
> the middle of a city!

>

> Hey, Gang! Come on, if I can hear this beacon I venture to say many of  
> you can, especially those in much quieter areas....I'd hate to think that  
> I'm gonna be the only one to log Pete's beacon at the 50 uW  
> level....Adams is gonna choke if he has to issue me a record MpW award  
> based on this! (although, I don't think that beacon reception reports can  
> qualify for the ARCI MpW award....)

>

> 73 rich K7SZ

>

Well Rich that makes two of us. I was able to copy the 50uw on Sat at 0157Z  
but couldn't quite get the last letter of the code word. But then on Sunday  
at 1124Z the copy was almost armchair. Got the 50uw at a 329 but only due to  
QSB and a little QRM, most of the time it was 449. I'm 102 miles so I guess I  
beat you with 2,040,000 miles/watt. Rig here is a TenTec Corsair II and 75m  
inverted V at 35' in the center. I suggested to Pete that he may be running  
TOO MUCH power and maybe should go to 25uw or even 10uw the next time. Maybe  
1uw???? BTW it seems the best time is from just before sunrise to about  
3-3 1/2 hours after. Low QRN and stronger signals. I can see where DSP  
would also help. 72/73 Jim K4CGY Mt. Airy, MD qrp-l #72

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997

From: Frank G3YCC <g3ycc@gqrpclub.demon.co.uk>

Subject: [19029] Re: QTTF Antenna finally tested -G3YCC mini dipole

Message-ID: <862871248.0523183.0@gqrpclub.demon.co.uk>

I was thrilled to see the report and pleased your results confirmed mine!

Have fun with the mini dipole.

Frank G3YCC

QRP Web Site: <http://www.gqrpclub.demon.co.uk>

From owner-qrp-l@Lehigh.EDU Mon May 5 18:04:21 1997

From: Paul Harden <pharden@aoc.nrao.edu>

Subject: [18972] Re: Specs on LM384 chip???

Message-ID: <199705051518.JAA25180@zia.aoc.nrao.edu>

The LM384 is virtually identical to the LM380, except it is

rated at 5.0 Watts audio output (LM380 is 2.5W). The "pin-out" of the two chips is absolutely identical, so you can use all the information in the Data Book for the LM380, including the pin assignments for the 14-pin LM380 for the LM384. The quiescent current and output power values will be higher, but the internal gains (set to  $A_v=50$ ) is the same in both.

GL, Paul NA5N